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The United States of America



The Commissioner of Patents and Trademarks

Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this

United States Patent

Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America for the term set forth below, subject to the payment of maintenance fees as provided by law.

If this application was filed prior to June 8, 1995, the term of this patent is the longer of seventeen years from the date of grant of this patent or twenty years from the earliest effective U.S. filing date of the application, subject to any statutory extension.

If this application was filed on or after June 8, 1995, the term of this patent is twenty years from the U.S. filing date, subject to any statutory extension. If the application contains a specific reference to an earlier filed application or applications under 35 U.S.C. 120, 121 or 365(c), the term of the patent is twenty years from the date on which the earliest application was filed, subject to any statutory extension.

Acting Commissioner of Patents and Trademarks

Ollie M. Person

Attest

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 5,878,745
DATED : March 9, 1999
INVENTOR(S) : Archibald I. J. BRAIN

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 7, line 17; delete "deflated-GLM"
and insert therefor
--deflated GLM--

Column 8, lines 10 and 11; change "moulded backing plate 55
or body member"
to --moulded backing plate
or body member 55--

Column 8, line 18; after "bowl"
insert --or dome-shape--



Attest:

May 14th 1999 Q. Todd Dickinson

Attesting Officer

Q. TODD DICKINSON

Acting Commissioner of Patents and Trademarks

Signed and Sealed this
Third Day of August, 1999



US005878745A

United States Patent [19]

Brain

[11] Patent Number: 5,878,745
[45] Date of Patent: Mar. 9, 1999

[54] GASTRO-LARYNGEAL MASK

[76] Inventor: Archibald L.J. Brain, Sandford House, Fan Court Gardens, Longcross Road, Chertsey, Surrey KT16 0DJ, United Kingdom

[21] Appl. No.: 921,169

[22] Filed: Aug. 29, 1997

Related U.S. Application Data

[63] Continuation of Ser. No. 609,521, Mar. 1, 1996, abandoned.

[51] Int. Cl. 6 A61M 16/00; A61M 5/32; A61M 29/00; A62B 9/06

[52] U.S. Cl. 128/207.15; 128/207.14; 604/96; 604/174

[58] Field of Search 128/207.15, 207.14; 128/200.26; 604/96-103, 174

[56] References Cited

U.S. PATENT DOCUMENTS

5,241,956 9/1993 Brain 128/207.15
5,305,743 4/1994 Brain 128/207.15
5,355,879 10/1994 Brain 128/207.15

Primary Examiner—Kimberly L. Asher
Attorney, Agent, or Firm—Hopgood, Calimafde, Kalil & Judlowe

[57] ABSTRACT

A gastro-laryngeal mask features softly compliant construction of the distal half of the mask, wherein the mask is of generally elliptical configuration, with an inflatable peripheral cuff to seal and support the mask around the laryngeal inlet. A back cushion is inflatable to engage the back wall of the pharynx and thus to forwardly load the peripheral-cuff seal to the laryngeal inlet. An evacuation tube for external removal of a possible gastric discharge completes an evacuation or discharge passage contained within the mask and opening through the distal end of the peripheral cuff. Special provision is made for assuring integrity of the discharge passage within the flexible distal half of the mask, i.e., assuring against collapse of the distal-end half of the softly compliant evacuation tube in the distal region of the mask, such that inflation of the mask does not compromise viability of the evacuation tube by compressing softly compliant material of the evacuation tube during periods of mask inflation. The special provision also favors such collapse of the mask when deflated as to provide a leading flexible edge for piloting a safe and correct advancing insertional advance of the deflated mask in the patient's throat, in avoidance of epiglottis interference and to the point of locating engagement in the upper sphincter of the oesophagus.

13 Claims, 3 Drawing Sheets

